

CLAIMS:

1. A communications network (1) comprising *node includes*
- a plurality of network nodes (2), which include each a synchronization circuit (5) for generating a global clock signal from a local clock signal (LT) formed by a clock generator (4) in dependence on a time of reception of a message,
5 - a divider arrangement (8) included in the synchronization circuit, for dividing the local clock signal in dependence on at least one divider factor produced by a scaler arrangement (9), and a correction term (KT), and
- a comparator circuit (10) for forming the correction term by comparing the time of reception of a message and of the local clock signal LT,
10 characterized
in that the synchronization circuit (5) comprises a divider control (7), which is provided for changing at least one divider factor when the correction term (KT) exceeds a predefined first threshold.
- 15 2. A communications network as claimed in claim 1,
characterized
in that the divider control (7) includes a control unit (12) which is provided for applying a control signal to a divider factor generator (13) included in the divider control (7) when the correction term exceeds the predefined first threshold and in that the divider factor generator
20 (13) is provided for changing the divider factors when the control signal occurs.
3. A communications network as claimed in claim 2,
characterized
in that the synchronization circuit includes a calibration unit (14) which is provided for
25 calibrating the divider factors when the correction term (KT) exceeds a predefined second threshold, which is larger than the first threshold.